



1999 NDIA Tactical Wheeled Vehicles Conference

Marine Corps Systems Command

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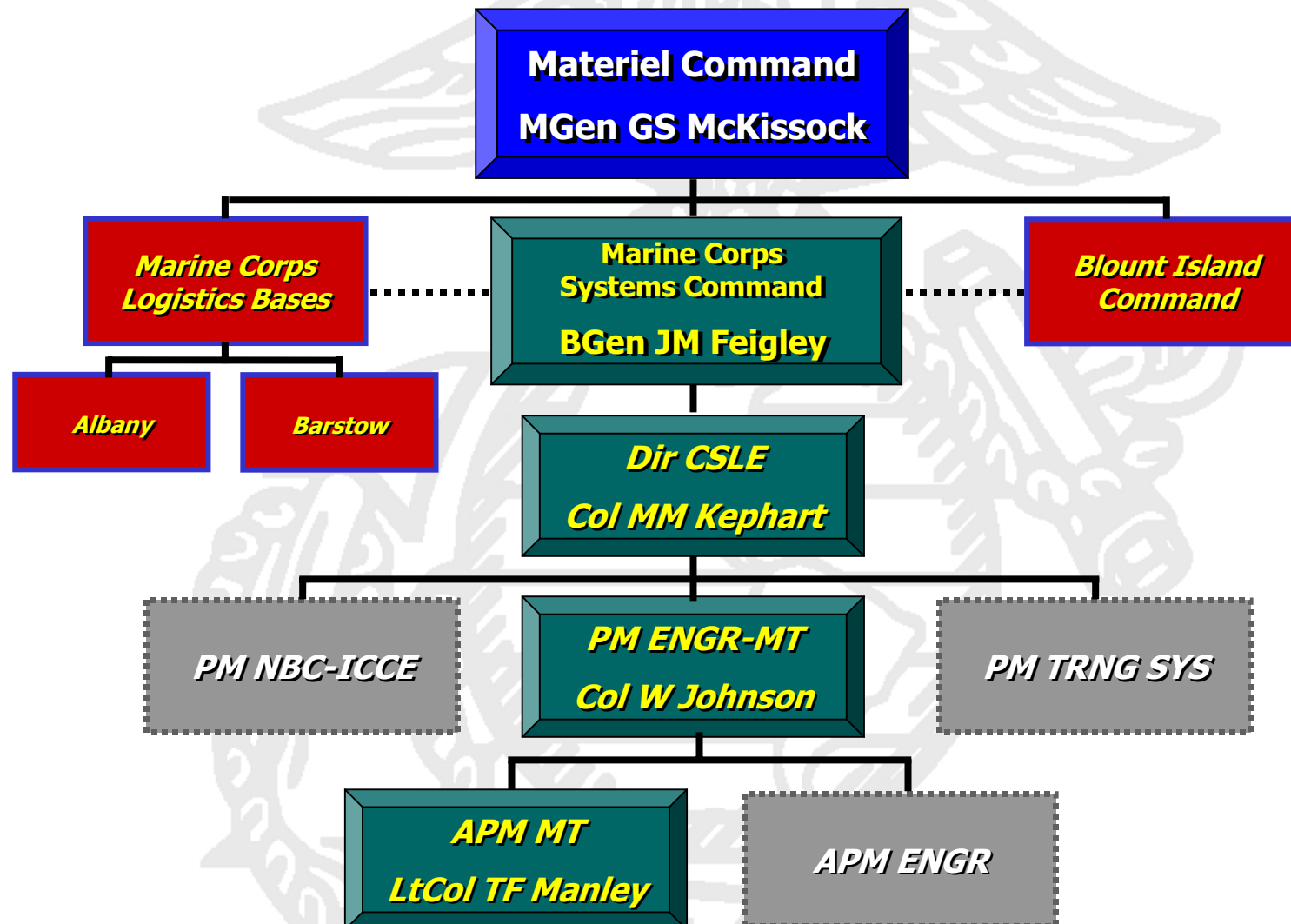


Agenda

- ***Marine Corps Materiel Command***
- ***CSLE Organization***
- ***Programs***
- ***Future Challenges***
- ***What You Can Do***

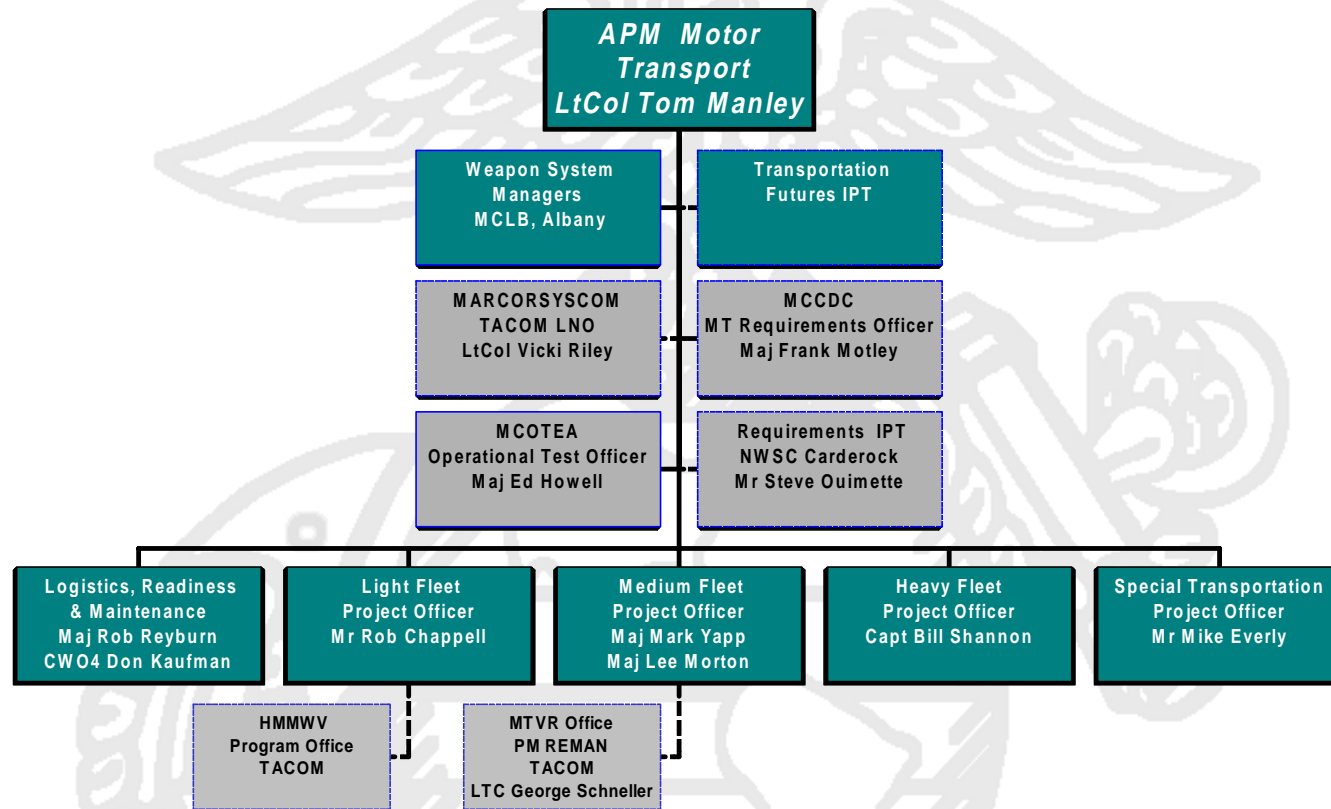


Marine Corps Materiel Command





APM Motor Transport



Mission: Provide the management and support for Materiel Life Cycle Management (MLCM), to include research, development, acquisition & sustainment, of Motor Transport and associated transportation systems in order to support OMFTS and STOM while reducing TOC.



Light Fleet



• **HMMWVA2**

- **HMMWV**
- **M101A3 / M116A3 Trailers**
- **Internally Transportable - Light Tactical Vehicle (IT-LTV)**



Medium Fleet



- **M809/939 5-Ton Series Trucks**
- **Medium Trailers**
 - **M105 / M149 / M353 Trailers**
 - **MTVR Trailers**



Heavy Fleet



- **M870A2 Lowbed Semitrailer**
- **Tactical Fuel Transport & Refueling**
 - M970 Refueler Semitrailer
 - Aircraft Refueling Capability (ARC)
- **Commercial Tractor**



Special Fleet



• Military Motorcycle Replacement

- ***P-19A Crash, Fire & Rescue***
- ***Heavy Equipment Transporter (70+ Ton)***
- ***Motor Transport Modification Program***



Transportation Futures IPT

Mission: Establish & execute a mutli-disciplinary approach to addressing all the issues related to fielding the current & future fleet of transportation & distribution assets to support future Marine Corps Operations

- ***Goals***

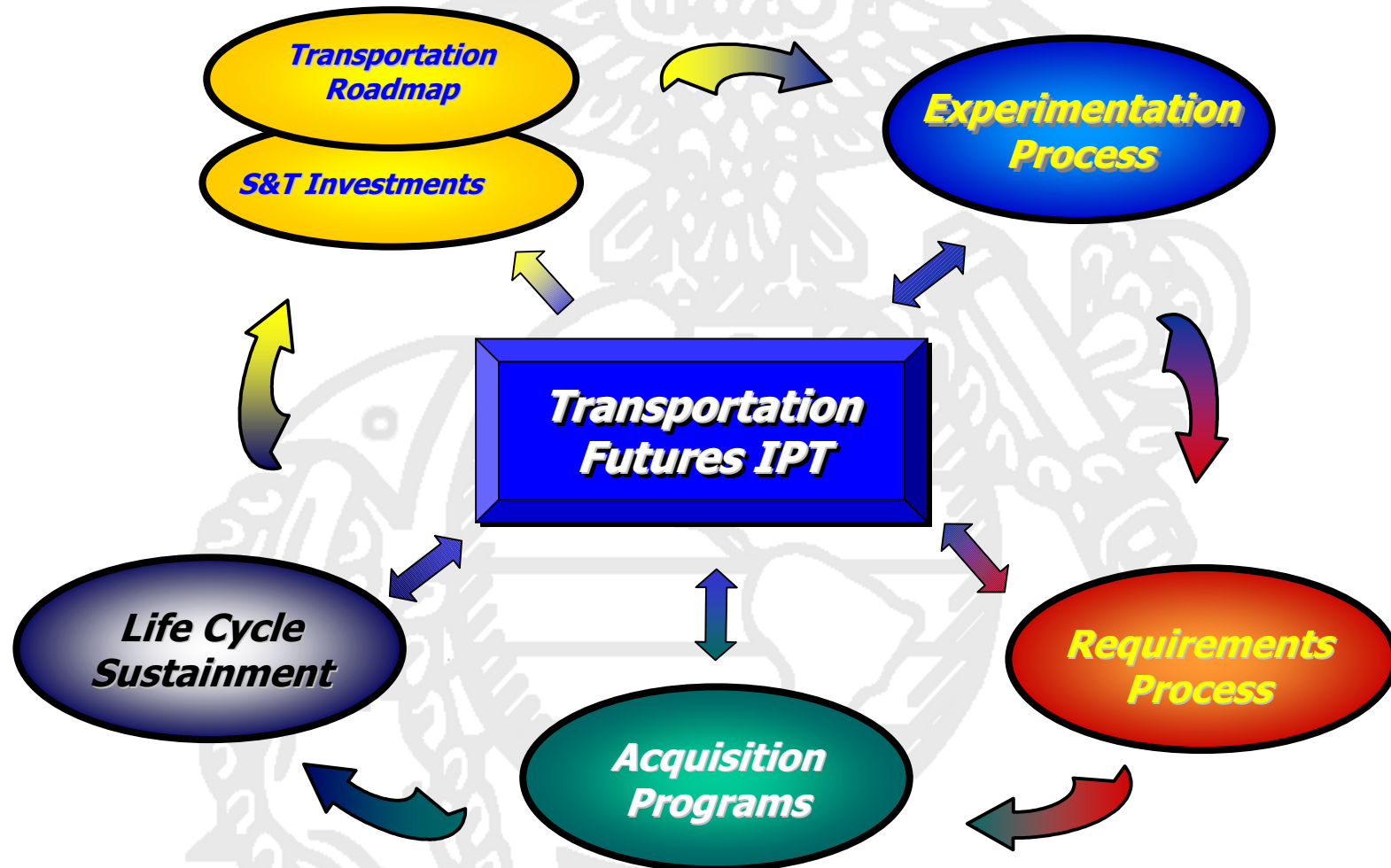
- Establish, refine & reinforce transportation systems acquisition
- Identify & analyze applicable emerging technologies
- Examine strategies to streamline procurement & fielding
- Identify, analyze & resolve critical programmatic issues
- Provide historical visibility into the decision making process

- ***Meets Quarterly***

Provide the Marine Corps Transportation "Roadmap"

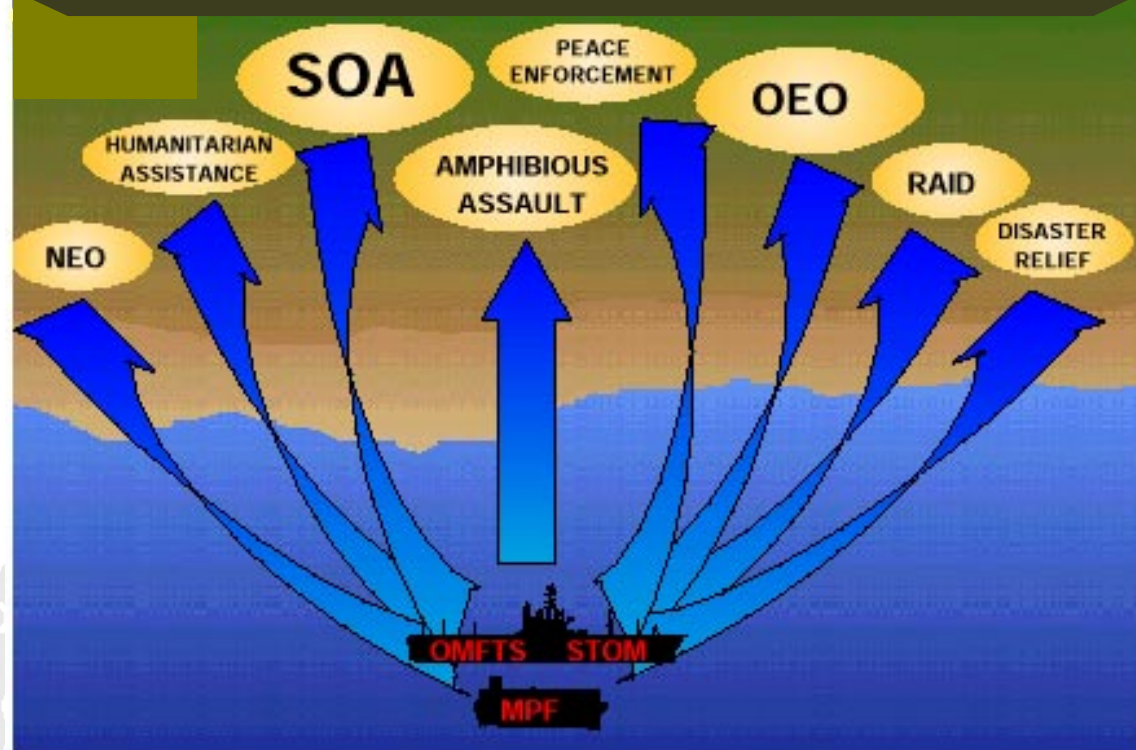


Transportation Futures IPT





Motor Transport & Seabased Logistics in Support of OMFTS



- **Primacy of the Sea Base** Reduce or Eliminate the Footprint
- **Reduced Demand** Seabased Support - Light Force Ashore
- **In-stride Sustainment** Automated Logistics for Maneuver Units
- **Adaptive Response** Expanded Missions - Joint Support
- **Reconstitute at Sea** Build & Restore Combat Power



Reduce Burden of Logistics Support

- ***Precision Logistics vs
Traditional Logistics Tail***
- ***Logistics Support Systems That ...***
 - **Use less fuel**
 - **Require little or no maintenance over a given period, e.g., a month**
 - **Can predict internal failures**
 - **Leverage Technology**
 - **Maintenance free batteries**
 - **Reusable filters**
 - **Onboard oil analysis**

Logistics Focused on Supporting Operational Forces



Reduce Total Ownership Costs

- ***Maintenance***
 - Shorter, more responsive repair part pipelines
 - More precise repair parts accountability
 - Predictive maintenance capabilities
- ***New Technology***
 - Fewer, more reliable batteries
 - Reusable filters & Onboard oil analysis
- ***Industry Experience & Best Practices***

Do It Cheaper By Doing It Smarter



Corrosion Protection

- ***Corrosion is #1 Maintenance Problem***
 - Marine Corps environment
 - BIG impact on vehicle life
- ***Two Approaches***
 - Design into new system (*MTVR & HMMWVA2*)
 - Fixing Existing Systems
 - Less clear solutions
 - Potentially more difficult & costly than new
- ***What Is Out There & What Can Work?***

Makes Otherwise Sound Vehicles Unserviceable



Best Use of Technology

- ***What is Out There?***
- ***Is It Applicable for ...***
 - Insertion into existing systems
 - Design into new systems
- ***What Is Impact on TOC?***
- ***Improve the Process***
 - Models & Simulation throughout System Life Cycle
 - Integrated Process & Product Development

More Questions Than Answers



What You Can Do

- ***Let Us Know of Ways to Answer Challenges***
- ***Ideas for the MT Modification Line***
 - **Existing Commercial Solutions versus New Design**
 - **Talk to Project Officers**
- ***Better Ways to Facilitate ...***
 - **Government - Industry Cooperation**
 - **Teaming**

Give Us Your Ideas for Solutions